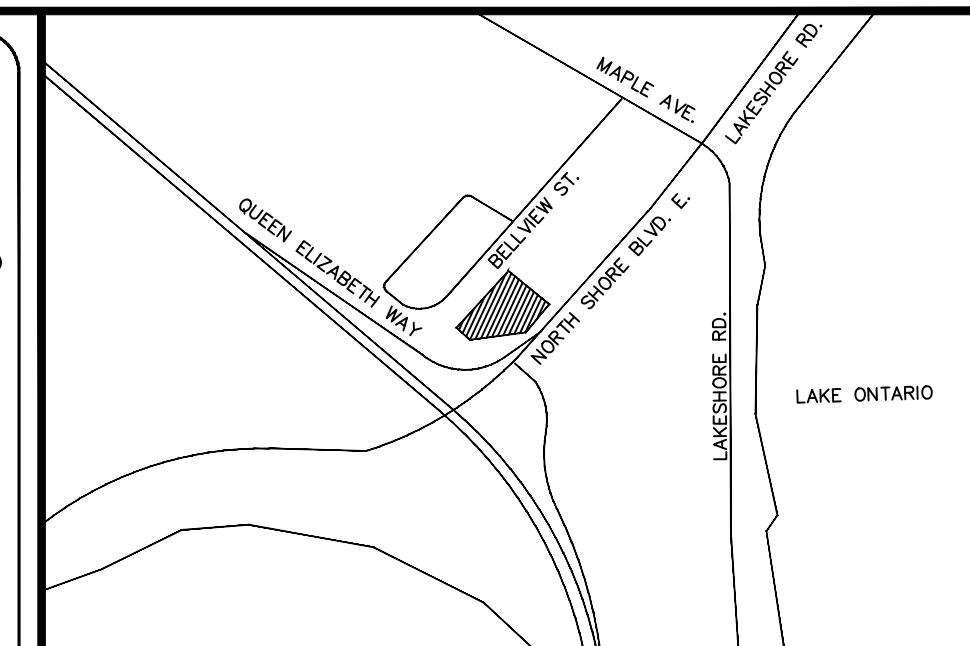


SERVICING LEGEND:

- ⊕ DENOTES EXISTING STORM MANHOLE
- ⊖ DENOTES PROPOSED STORM MANHOLE
- ⊕ DENOTES EXISTING CATCH BASIN
- ⊖ DENOTES PROPOSED CATCH BASIN
- ⊕ DENOTES PROPOSED STORMCEPTOR
- ⊖ DENOTES PROPOSED INLET CONTROL DEVICE (ICD)
- ⊕ DENOTES EXISTING STORM SEWER
- ⊖ DENOTES PROPOSED STORM SEWER
- ⊕ DENOTES EXISTING SANITARY MANHOLE
- ⊖ DENOTES PROPOSED SANITARY MANHOLE
- ⊕ DENOTES EXISTING SANITARY SEWER
- ⊖ DENOTES PROPOSED SANITARY SEWER
- ⊕ DENOTES EXISTING HYDRANT
- ⊖ DENOTES PROPOSED HYDRANT
- ⊕ DENOTES EXISTING WATER VALVE & BOX
- ⊖ DENOTES PROPOSED WATER VALVE & BOX
- ⊕ DENOTES EXISTING WATER METER
- ⊖ DENOTES PROPOSED WATER METER
- ⊕ DENOTES EXISTING WATER MAIN
- ⊖ DENOTES PROPOSED WATER MAIN
- ⊕ DENOTES PROPOSED SIAMSE CONNECTION
- ⊖ DENOTES PROPOSED CAP FOR SANITARY, STORM, AND/OR WATER AS NOTED
- ⊕ DENOTES PROPOSED ENTRANCE LOCATION
- ⊖ DENOTES PROPOSED LIMIT OF CONSTRUCTION
- ⊕ DENOTES PROPOSED HEAVY DUTY ASPHALT AREA



KEY PLAN
Scale: N.T.S.

SUBJECT LANDS

NOTE:
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THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S CONTRACTOR FROM OBTAINING, BUT NOT LIMITED TO THE FOLLOWING PERMITS: ROAD CUT, SEWER PERMITS, RELOCATION OF SERVICES, ENCROACHMENT AGREEMENTS, APPROACH APPROVAL, PERMITS, ETC...

EXISTING TOPOGRAPHIC AND BOUNDARY INFORMATION PROVIDED BY MACKAY MACKAY & PETERS LTD. IN THEIR BOUNDARY AND TOPOGRAPHIC SURVEY DATED MARCH 12, 2018.

BENCH MARK:
CITY OF BURLINGTON BENCHMARK NO. 292 (ELEVATION = 83.708 METRES (CGVD-1929; 1978 ADJUSTMENT))
BRASS CAP IN SIDEWALK LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF NORTH SHORE BOULEVARD AND FRANCIS ROAD, MONUMENT LOCATED 15.25 METRES SOUTHWESTERLY FROM THE SOUTHWEST CORNER OF HOUSE NO. 1007 NORTH SHORE BOULEVARD, 6 METRES SOUTHEAST FROM THE HYDRO POLE (LIGHT POLE), FIRST POLE NORTH OF NORTH SHORE BOULEVARD ON THE EAST SIDE OF FRANCIS ROAD AND 8.2 METRES FROM THE CENTER LINE OF FRANCIS ROAD.

BEARING NOTE:
BEARINGS ARE ASTROGNOMIC AND ARE REFERRED TO THE NORTHWESTERLY LIMIT OF PLAN 20R-6415, HAVING A BEARING OF N42°28'50"E.

METRIC NOTE:
DISTANCES AND ELEVATIONS ON THIS PLAN ARE TYPICALLY SHOWN IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

| NO. | REVISIONS | DATE | BY |
|-----|-----------------------------|-----------|----|
| 2. | ISSUED FOR ZBA RESUBMISSION | AUG 15/19 | DB |
| 1. | ISSUED FOR ZBA SUBMISSION | SEP 19/18 | DB |

SCALE: 0 10 20 30

DRAWING: **FUNCTIONAL SERVICING PLAN**

CLIENT: **SPRUCE PARTNERS**

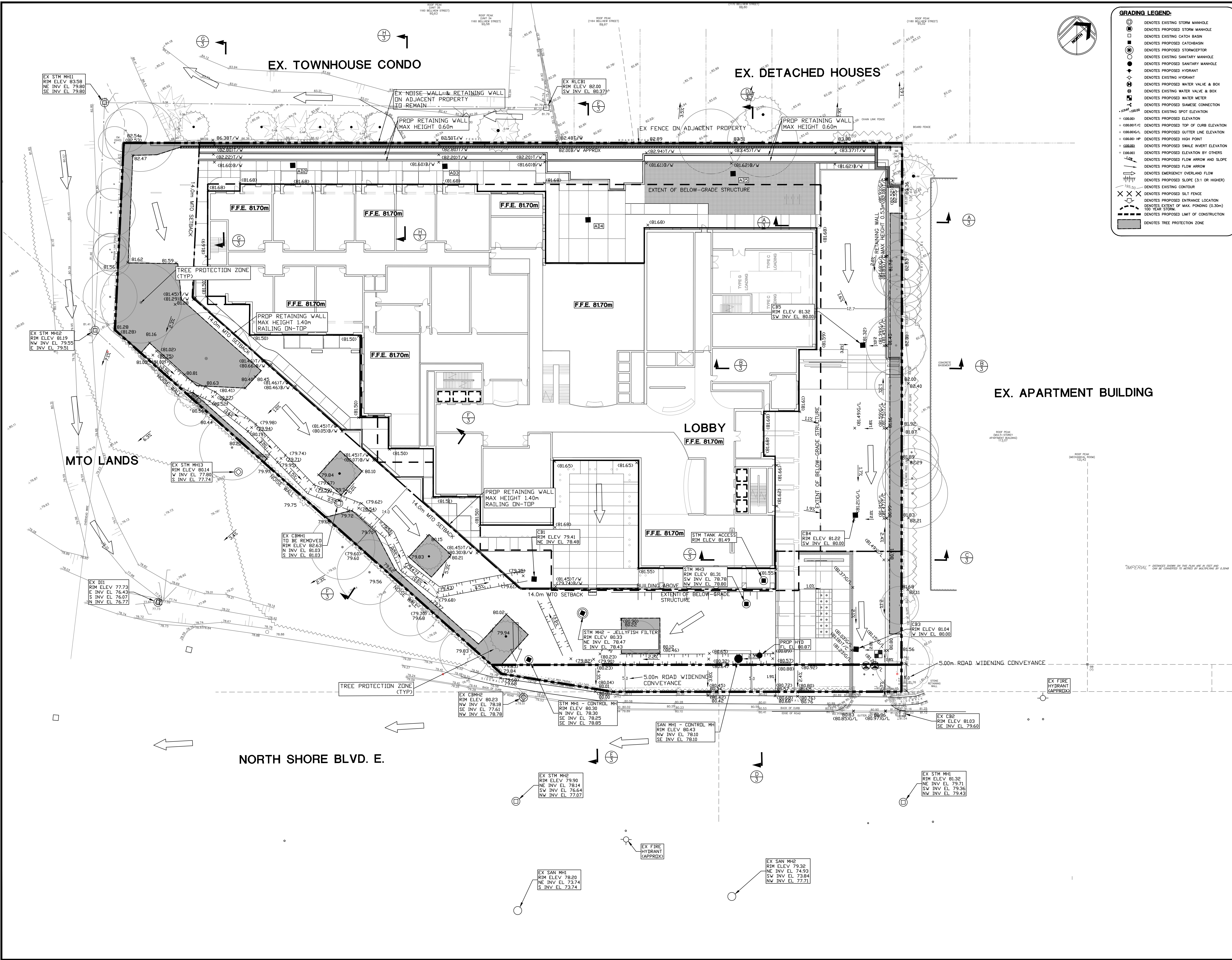
PROJECT: **PROPOSED RESIDENTIAL & RETIREMENT HOME DEVELOPMENT
1157-1171 NORTH SHORE BOULEVARD EAST
BURLINGTON, ON**

SCALE: 1:300

The Odan-Detech Group Inc. P: (905) 632-3811 F: (905) 632-3363
8230 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO, L7L 5K2

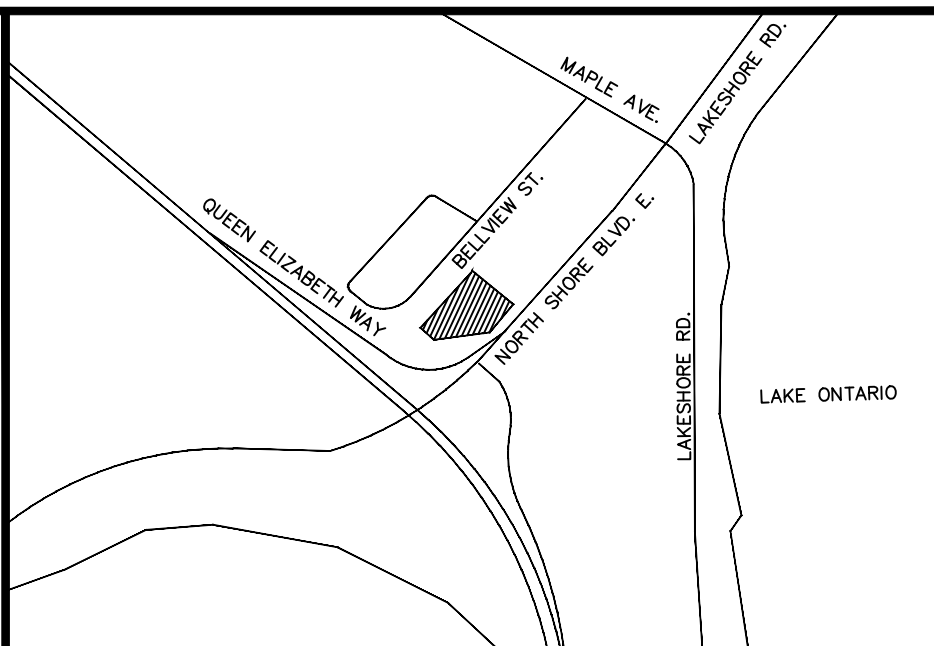
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|------------------|------------------------|---------------------|
| PROJ. NO.: 18204 | DATE STARTED: MAY 2018 | DESIGN BY: D.B. |
| SCALE: 1:300 | PROJ. NO.: 18204 | DRAWN BY: D.B. |
| 18204-1B.dwg | PROJ. NO.: 18204 | CHECKED BY: D.C.S. |
| | | APPROVED BY: D.C.S. |
| | | DRWG. NO.: 1 OF 3 |

ENGINEER



GRADING LEGEND:

- DENOTES EXISTING STORM MANHOLE
- DENOTES PROPOSED STORM MANHOLE
- DENOTES EXISTING CATCH BASIN
- DENOTES PROPOSED CATCH BASIN
- DENOTES EXISTING SANITARY MANHOLE
- DENOTES PROPOSED SANITARY MANHOLE
- DENOTES EXISTING HYDRANT
- DENOTES PROPOSED HYDRANT
- DENOTES EXISTING WATER VALVE & BOX
- DENOTES PROPOSED WATER VALVE & BOX
- DENOTES EXISTING WATER METER
- DENOTES PROPOSED WATER METER
- DENOTES EXISTING SANSE CONNECTION
- DENOTES PROPOSED SANSE CONNECTION
- DENOTES EXISTING SPOT ELEVATION
- DENOTES PROPOSED ELEVATION
- DENOTES PROPOSED TOP OF CURB ELEVATION
- DENOTES PROPOSED GUTTER LINE ELEVATION
- DENOTES PROPOSED HIGH POINT
- DENOTES PROPOSED SWALE INVERT ELEVATION
- DENOTES PROPOSED ELEVATION BY OTHERS
- DENOTES PROPOSED FLOW ARROW AND SLOPE
- DENOTES PROPOSED FLOW ARROW
- DENOTES EMERGENCY OVERLAND FLOW
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED SLOPE (3:1 OR HIGHER)
- DENOTES PROPOSED SLOPE
- DENOTES PROPOSED SLOTTED FENCE
- DENOTES PROPOSED ENTRANCE LOCATION
- DENOTES EXTENT OF MAX. PONDING (0.30m)
- DENOTES PROPOSED LIMIT OF CONSTRUCTION
- DENOTES TREE PROTECTION ZONE



KEY PLAN
Scale: N.T.S.

SUBJECT LANDS

NOTE:
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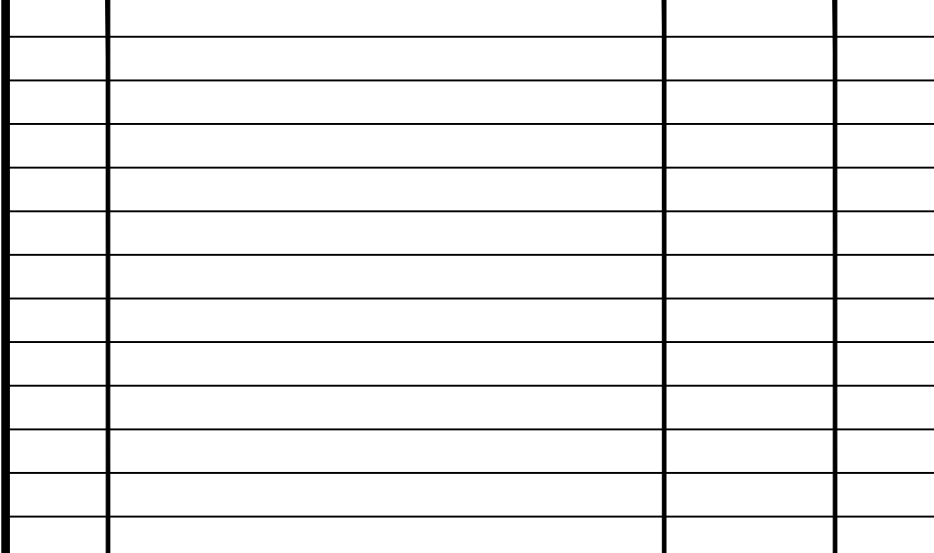
EXISTING TOPOGRAPHIC AND BOUNDARY INFORMATION PROVIDED BY MACKAY MACKAY & PETERS LTD. IN THEIR BOUNDARY AND TOPOGRAPHIC SURVEY DATED MARCH 12, 2018

BENCH MARK:
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| NO. | REVISIONS | DATE | BY |
|-----|-----------------------------|-----------|----|
| 2. | ISSUED FOR ZBA RESUBMISSION | AUG 15/19 | DB |
| 1. | ISSUED FOR ZBA SUBMISSION | SEP 19/18 | DB |
| NO. | REVISIONS | DATE | BY |



DRAWING :
FUNCTIONAL GRADING PLAN

CLIENT :
SPRUCE PARTNERS

PROJECT :
PROPOSED RESIDENTIAL & RETIREMENT HOME DEVELOPMENT
1157-1171 NORTH SHORE BOULEVARD EAST
BURLINGTON, ON

SCALE :
1:300

PROJ. NO.:
18204

DATE STARTED:
MAY 2018

DESIGN BY:
D.B.

DRAWN BY:
D.B.

CHECKED BY:
D.C.S.

APPROVED BY:
D.C.S.

DRWG. NO.:
2 OF 3

ODAN-DETECH
CONSULTING ENGINEERS

The Odan+Detch Group Inc. P: (905) 632-3811 F: (905) 632-3363
5230 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO, L7L 5K2

EX STN MH1
RIM ELEV 83.58
NE INV EL 79.80
SE INV EL 79.80

EX STN MH2
RIM ELEV 81.19
NW INV EL 79.55
E INV EL 79.51

EX STN MH3
RIM ELEV 80.14
V INV EL 77.80
S INV EL 77.74

EX STN MH4
RIM ELEV 77.73
E INV EL 76.43
S INV EL 76.07
N INV EL 76.77

EX CBM1
RIM ELEV 82.63
N INV EL 81.03
S INV EL 81.03

EX CBM2
RIM ELEV 80.23
NW INV EL 78.19
S INV EL 77.61
NW INV EL 78.78

EX SAN MH1
RIM ELEV 80.30
NE INV EL 78.30
NW INV EL 78.30
SE INV EL 78.85

EX SAN MH2
RIM ELEV 80.43
NE INV EL 78.10
NW INV EL 78.10
SE INV EL 78.10

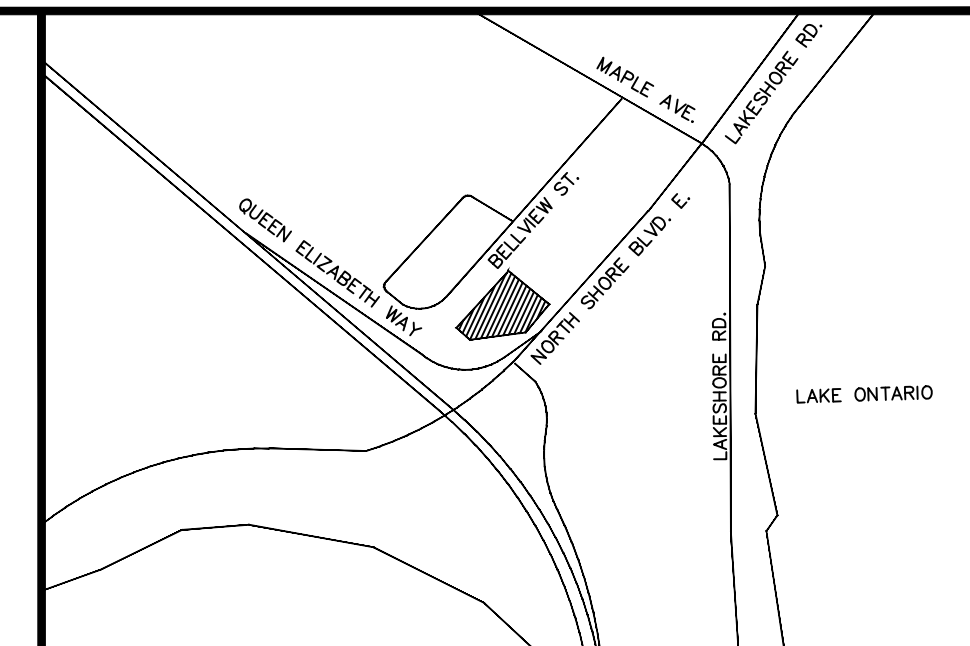
EX STN MH1
RIM ELEV 81.32
NE INV EL 79.71
SW INV EL 79.26
NW INV EL 79.43

EX SAN MH1
RIM ELEV 79.32
NE INV EL 74.93
SW INV EL 73.84
NW INV EL 72.71

EX SAN MH1
RIM ELEV 78.20
NE INV EL 73.74
S INV EL 73.74

EX FIRE HYDRANT (APPROX)

EX FIRE HYDRANT (APPROX)



KEY PLAN
Scale: N.T.S.

SUBJECT LANDS

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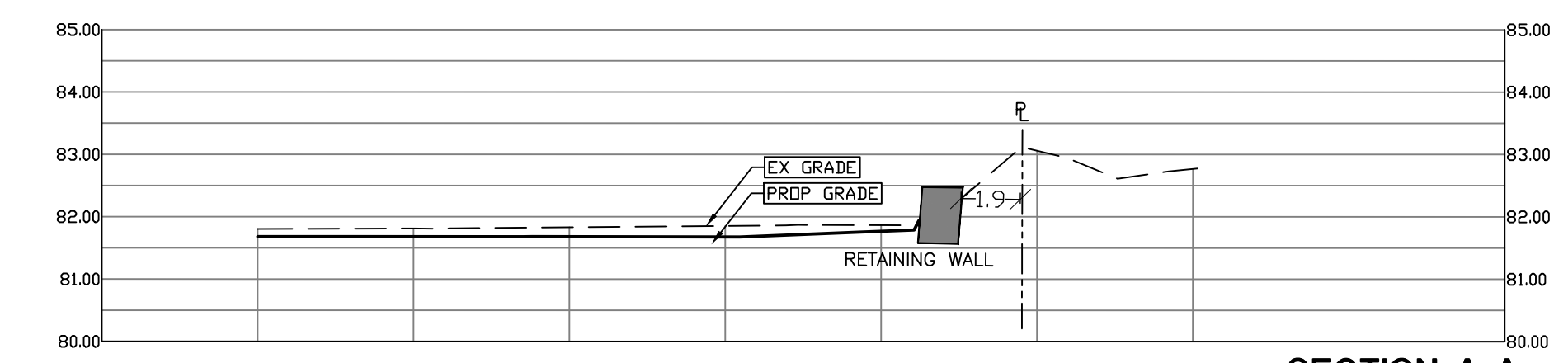
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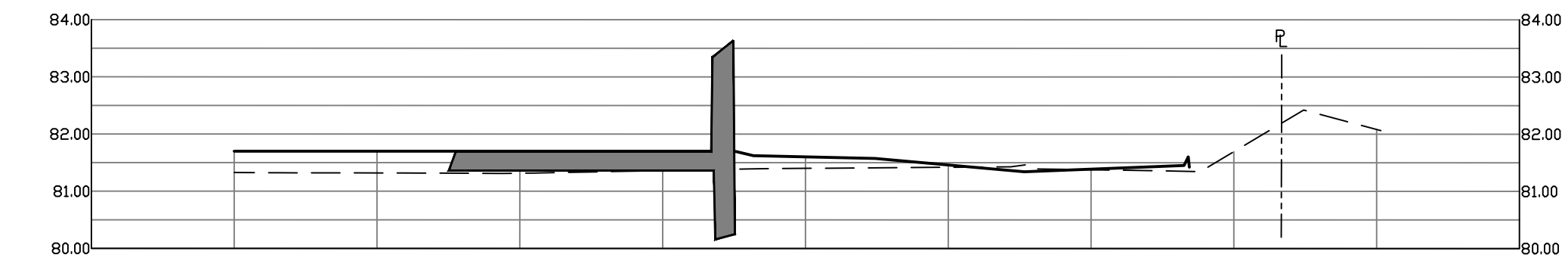
BENCH MARK:
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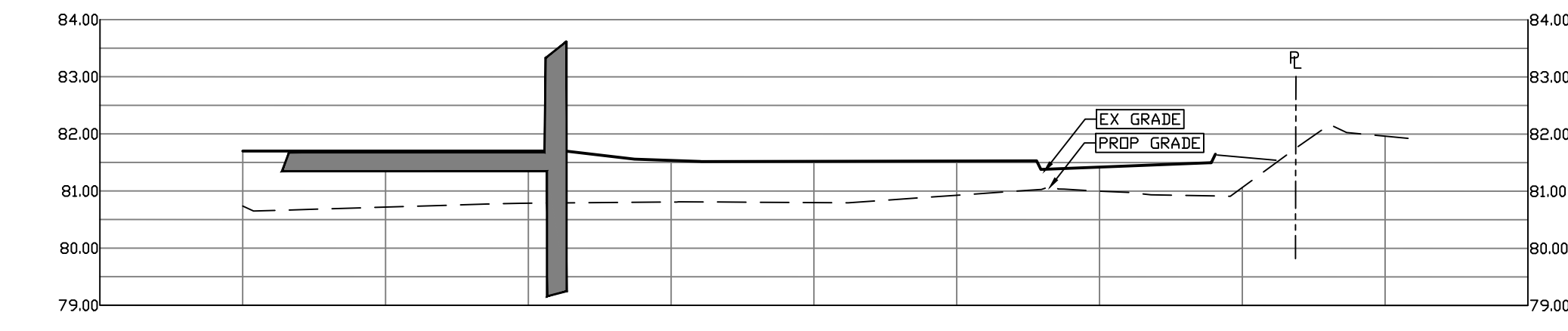
METRIC NOTE:
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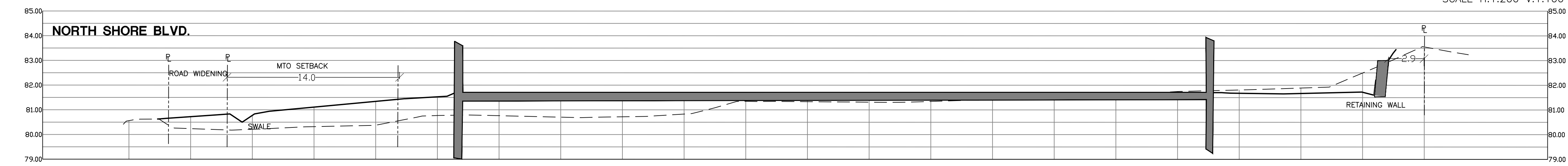
SECTION A-A
SCALE H:1:200 V:1:100



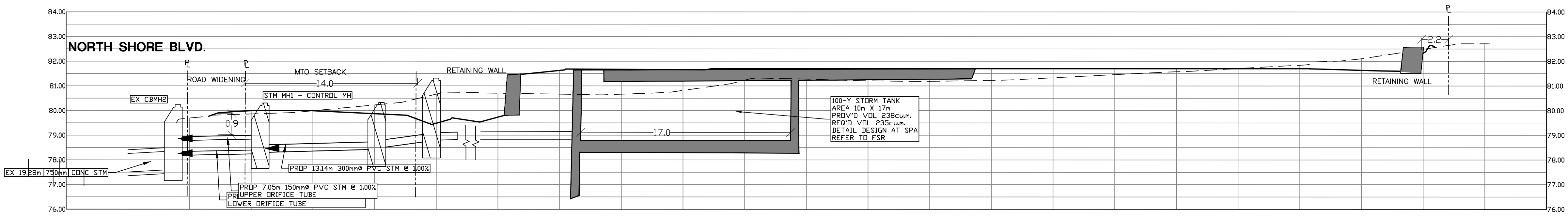
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SCALE H:1:200 V:1:100



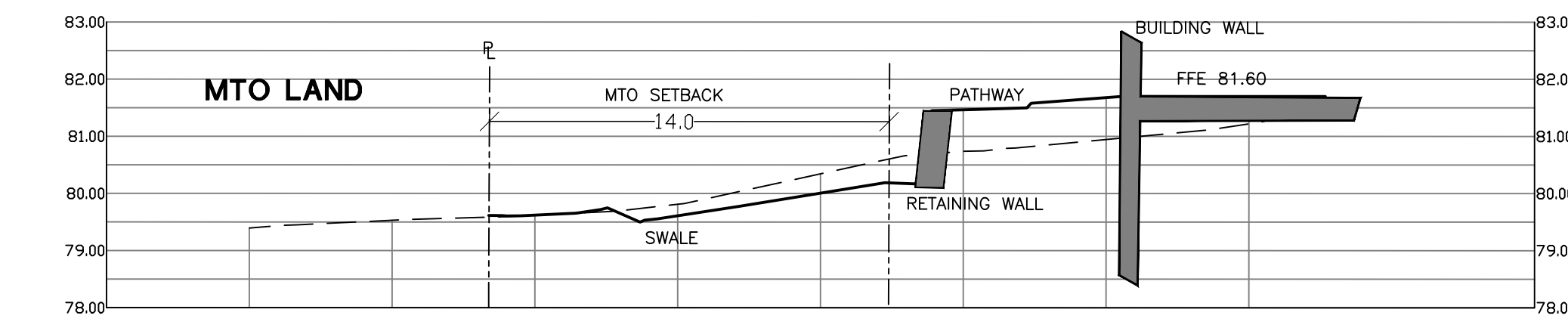
SECTION C-C
SCALE H:1:200 V:1:100



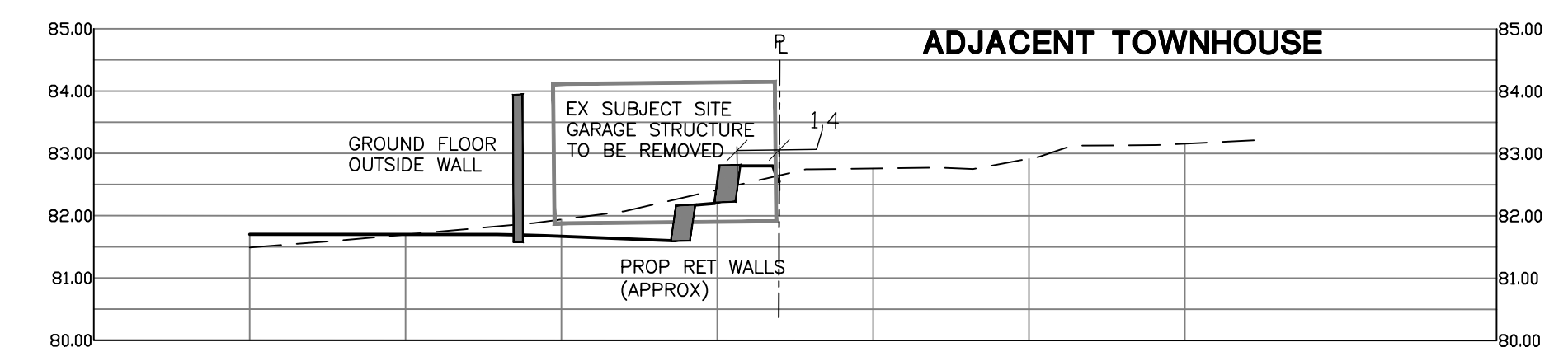
SECTION D-D
SCALE H:1:200 V:1:100



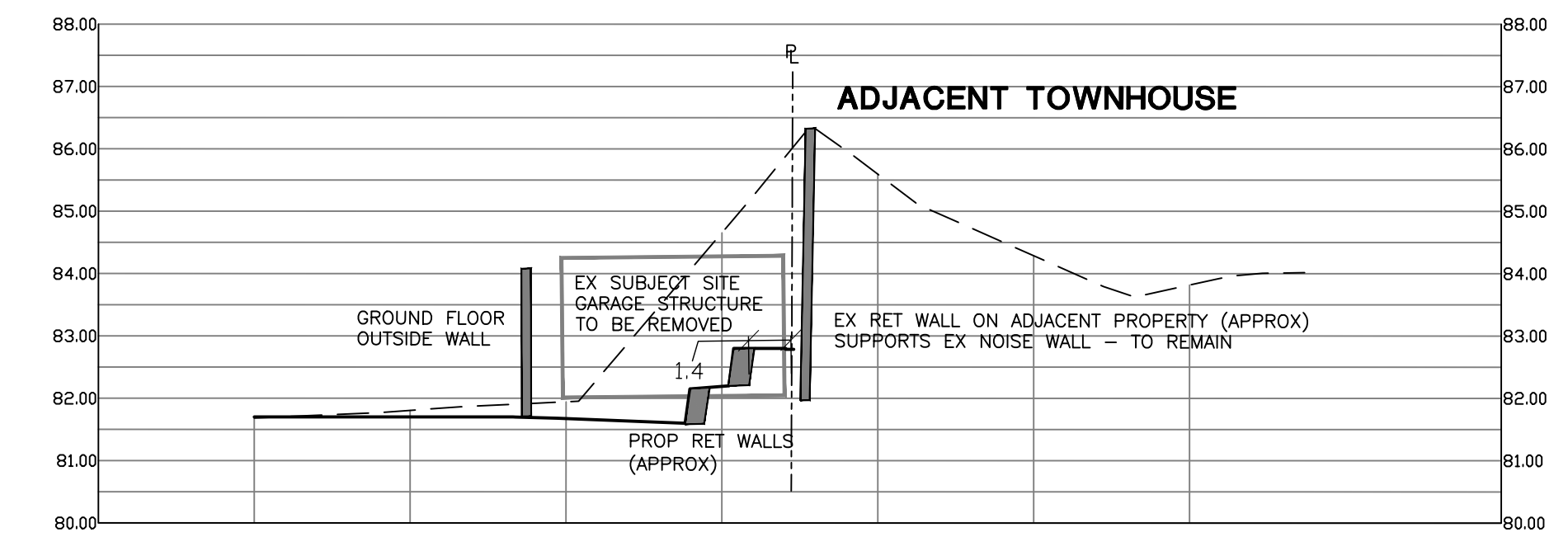
SECTION E-E
SCALE H:1:200 V:1:100



SECTION F-F
SCALE H:1:200 V:1:100

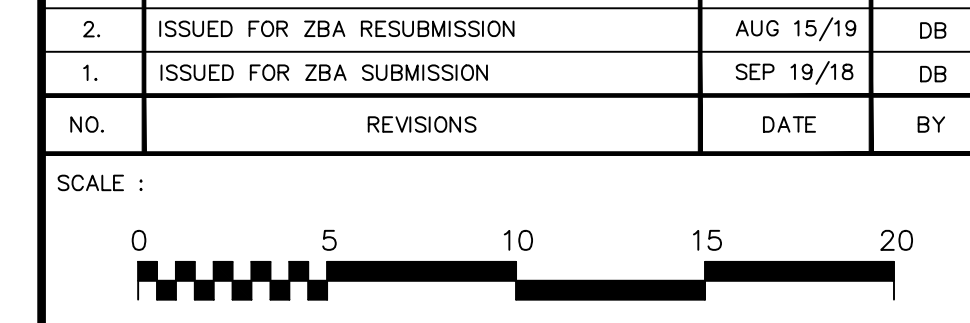


SECTION H-H
SCALE H:1:200 V:1:100



SECTION G-G
SCALE H:1:200 V:1:100

| NO. | REVISIONS | DATE | BY |
|-----|-----------------------------|-----------|----|
| 2. | ISSUED FOR ZBA RESUBMISSION | AUG 15/19 | DB |
| 1. | ISSUED FOR ZBA SUBMISSION | SEP 19/18 | DB |



CLIENT:
SPRUCE PARTNERS

PROJECT:
PROPOSED RESIDENTIAL & RETIREMENT HOME DEVELOPMENT
1157-1171 NORTH SHORE BOULEVARD EAST
BURLINGTON, ON

ODAN-DETECH CONSULTING ENGINEERS
The Odan+Detch Group Inc. P: (905) 632-3811 F: (905) 632-3383
8230 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO, L7L 5K2

| | | | |
|--------------------------------|---------------------|---------------------------|------------------------|
| SCALE: H: 1:200 V: 1:100 | PROJ. NO.: 18204 | DATE STARTED: MAY 2018 | DESIGN BY: D.B. |
| 18204-3B.dwg | | | DRAWN BY: D.B. |
| | | | CHECKED BY: D.C.S. |
| | | | APPROVED BY: D.C.S. |
| | | | DRWG. NO.: 3 OF 3 |



ENGINEER